

## Refine Search

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L7 and recycl\$8	14

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 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L8  





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<i>DB=USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L8</u>	L7 and recycl\$8	14	<u>L8</u>
<u>L7</u>	L6 and ferment\$7	22	<u>L7</u>
<u>L6</u>	L5 and sulfuric acid	81	<u>L6</u>
<u>L5</u>	L4 and evaporat\$8	177	<u>L5</u>
<u>L4</u>	L3 and carbon dioxide	239	<u>L4</u>
<u>L3</u>	L2 and strip\$7	953	<u>L3</u>
<u>L2</u>	L1 and extract\$8	2949	<u>L2</u>
<u>L1</u>	ratio and lactic acid and lactate	5599	<u>L1</u>

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Search Results - Record(s) 1 through 10 of 14 returned.

☐ 1. Document ID: US 6509179 B1

Using default format because multiple data bases are involved.

L8: Entry 1 of 14

File: USPT

Jan 21, 2003

US-PAT-NO: 6509179

DOCUMENT-IDENTIFIER: US 6509179 B1

TITLE: Continuous process for preparing lactic acid

DATE-ISSUED: January 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Veldhuis-Stribos; Barbara I.	4206 AG Gorinchem			NL
Groot; Wim J.	3315 DH Dordrecht			NL
Dierdorp; Brenda M.	5236 VE Empel			NL
Breugel; Jan Van	4285 WS Woudrichem			NL
McWilliams; Paul L.	Banockburn	IL	60015	
Malsam; Jeff J.	Wayzata	MN	55391	
Fisher; Rod R.	Wayzata	MN	55391	
McElmury; Scott	Blair	NE	68008	

US-CL-CURRENT: 435/139

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 2. Document ID: US 6395926 B1

L8: Entry 2 of 14

File: USPT

May 28, 2002

US-PAT-NO: 6395926

DOCUMENT-IDENTIFIER: US 6395926 B1

TITLE: Process for recovering low-boiling acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 3. Document ID: US 6291708 B1

L8: Entry 3 of 14

File: USPT

Sep 18, 2001

US-PAT-NO: 6291708

DOCUMENT-IDENTIFIER: US 6291708 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Process for production of organic acids and esters thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 6262313 B1

L8: Entry 4 of 14

File: USPT

Jul 17, 2001

US-PAT-NO: 6262313

DOCUMENT-IDENTIFIER: US 6262313 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Thermal conversion of fatty acid salts to ketones

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 6043392 A

L8: Entry 5 of 14

File: USPT

Mar 28, 2000

US-PAT-NO: 6043392

DOCUMENT-IDENTIFIER: US 6043392 A

TITLE: Method for conversion of biomass to chemicals and fuels

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 5959144 A

L8: Entry 6 of 14

File: USPT

Sep 28, 1999

US-PAT-NO: 5959144

DOCUMENT-IDENTIFIER: US 5959144 A

TITLE: Process for the recovery of lactic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 5750732 A

L8: Entry 7 of 14

File: USPT

May 12, 1998

US-PAT-NO: 5750732

DOCUMENT-IDENTIFIER: US 5750732 A

TITLE: Method to produce cyclic esters

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 5563069 A

L8: Entry 8 of 14

File: USPT

Oct 8, 1996

US-PAT-NO: 5563069

DOCUMENT-IDENTIFIER: US 5563069 A

**\*\* See image for Certificate of Correction \*\***TITLE: Extractive fermentation using convoluted fibrous bed bioreactor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 5521278 A

L8: Entry 9 of 14

File: USPT

May 28, 1996

US-PAT-NO: 5521278

DOCUMENT-IDENTIFIER: US 5521278 A

TITLE: Integrated process for the manufacture of lactide

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 10. Document ID: US 5420304 A

L8: Entry 10 of 14

File: USPT

May 30, 1995

US-PAT-NO: 5420304

DOCUMENT-IDENTIFIER: US 5420304 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method to produce cyclic esters

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 11. Document ID: US 5319107 A

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L8: Entry 11 of 14

File: USPT

Jun 7, 1994

US-PAT-NO: 5319107

DOCUMENT-IDENTIFIER: US 5319107 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method to produce cyclic esters

DATE-ISSUED: June 7, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Benecke; Herman P.	Columbus	OH		
Cheung; Alex	Ft. Collins	CO		
Cremeans; George E.	Groveport	OH		
Hillman; Melville E. D.	Hillard	OH		
Lipinsky; Edward S.	Worthington	OH		
Markle; Richard A.	Columbus	OH		
Sinclair; Richard G.	Columbus	OH		

US-CL-CURRENT: 549/274; 549/379

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 12. Document ID: US 4379862 A

L8: Entry 12 of 14

File: USPT

Apr 12, 1983

US-PAT-NO: 4379862

DOCUMENT-IDENTIFIER: US 4379862 A

TITLE: Process for the preparation of polyurethane resins using low molecular weight polyhydroxyl compounds prepared by the condensation of formaldehyde

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 4301310 A

L8: Entry 13 of 14

File: USPT

Nov 17, 1981

US-PAT-NO: 4301310

DOCUMENT-IDENTIFIER: US 4301310 A

TITLE: Process for the preparation of low molecular weight polyhydroxyl compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 14. Document ID: US 4219508 A

L8: Entry 14 of 14

File: USPT

Aug 26, 1980

US-PAT-NO: 4219508

DOCUMENT-IDENTIFIER: US 4219508 A

TITLE: Process for the preparation of low molecular weight polyhydroxyl compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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